Ham-Digital Digest   Wed, 13 Oct 93   Volume 93 : Issue   72

Today's Topics:
                Call for info on Paccom TNCs (2 msgs)
                     Can I build TNC by myself?
                 DJ_580 microphone connector (3 msgs)
                   Macintosh & Packet: Need HELP!
                Making X1J(or whatever) go at 56 kbaud?
                           Public Apology
                         QPSK MODEM problem ?
                 TCP/IP starup cmds for MFJ TNC 2

Date: 12 Oct 1993 13:02:15 GMT
From: dog.ee.lbl.gov!agate!library.ucla.edu!europa.eng.gtefsd.com!
avdms8.msfc.nasa.gov!sol.ctr.columbia.edu!news.columbia.edu!news.cs.columbia.edu!
boxhill.com!ariel!ken@network.ucsd.edu
Subject: Call for info on Paccom TNCs
To: ham-digital@ucsd.edu

If anyone out there can help with the following questions regarding Paccom
TNC's, please do. If posting, the favor of a cc: to ken@boxhill.com is
appreciated.

1. Does anyone have experience with the various flavors of Open Squelch
   DCD adapters for the Paccom Tiny2 Mark 2 and how well they operate?
   (I have this TNC, but without the O.S. DCD adapter)

2. Does anyone have a Paccom battery-operated (rechargeable) portable
   TNC which I believe is called the Handipacket, and would care to
   comment? (I dont have one but think I want one).

3. Does anyone have suggestions on the best way to obtain Paccom stuff?
   (I have been unable to find dealers, does anyone have experience with
   their direct sales?) (My Tiny-2 TNC was bought used...)

Thanks to anyone who can respond!

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Ken Stamm  N2TIA            BBBB         H H  i  ll  ll
(ken@boxhill.com)           B   B        H H     l   l
BoxHill Systems Corporation BBBB  ooo x x HHHH ii  l   l
161 Avenue of the Americas  B   B o o  x  H H  i   l   l
New York, NY 10013          BBBB  ooo x x H  H iii lll lll
Tel: (212)989-HILL (4455)
Fax: (212)989-6817      S y s t e m s C o r p o r a t i o n
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Date: 12 Oct 93 18:51:17 GMT
From: vnet.IBM.COM@uunet.uu.net
Subject: Call for info on Paccom TNCs
To: ham-digital@ucsd.edu

In <29e9sn$326@boxhill.com> Ken Stamm writes:
>If anyone out there can help with the following questions regarding Paccom
>TNC's, please do. If posting, the favor of a cc: to ken@boxhill.com is
>appreciated.
>
>1. Does anyone have experience with the various flavors of Open Squelch
>   DCD adapters for the Paccom Tiny2 Mark 2 and how well they operate?
>   (I have this TNC, but without the O.S. DCD adapter)
>
> (Other questions deleted)
>
>Thanks to anyone who can respond!
>
>Ken Stamm N2TIA   BBBB   H H i ll ll
>(ken@boxhill.com)   B   B   H H   l   l
>

Forwarding reply from someone who has used the board:
From: Thomas L. Ringate (K0ZXF@K0ZXF.#TPALAN.FL.USA.NA)
I can answer #1. I have the DCD board in all of the TNC's and they
are wonderful. They only work for 1200 baud with the installed
internal modem in the tiny2. If you go to 9600 that modem has it's
own state machine in it.

I use the DCD board that plugs directly into the chip socket. That is
because we have about 15 TNC's and I want them to be all the same.
With the DCD board, the tiny2 is very reliable on 1200 baud, and for
the $20 or whatever it is price, it's well worth it in my opinion.

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 Voice: (813) 878-5258 |           | Advantis
 Fax:   (813) 878-5654 | Mail Drop | A Networking Technology Company
 ODYSSEUS@VNET.IBM.COM |    S408   | 3101 W. Dr. M. L. King, Jr., Blvd.
 Amateur Radio: KE4CRB |           | Tampa, Florida 33607  U. S. A.
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Date: 13 Oct 1993 02:50:27 +0200
From: agate!howland.reston.ans.net!pipex!sunic!trane.uninett.no!news.eunet.no!
nuug!news.eunet.fi!elvis.clinet.fi!clinet.fi!not-for-mail@ames.arpa
Subject: Can I build TNC by myself?
To: ham-digital@ucsd.edu

I am interested in building a TNC by myself (not just the modem).
Does anyone know any sources for ready designed schematics & software?

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Janne Snabb - snabb@clinet.fi - /S=snabb/O=CLINET/PRMD=INET/ADMD=FUMAIL/C=FI/

Date: 12 Oct 1993 07:58:38 GMT
From: olivea!inews.intel.com!ilx018.intel.com!ilx049!dbraun@uunet.uu.net
Subject: DJ_580 microphone connector
To: ham-digital@ucsd.edu

Well, I got a DH-580 and I need to connect it to my TNC. From
the schematic, I understand how the PTT and audio go on the same
line. No problem there. BUT, the microphone socket is a (submini)
STEREO socket, where the middle terminal is is apparently supposed to
supply 5 volts power to an external speaker-mike. So, if I plug in
a regular mono submini plug, I will end up shorting this power
connecton to ground! (thru a 100-ohm resistor). If I used a stereo
submini plug, and left the middle terminal unconnected, everything
would be OK. But I haven't seen a stereo submini plug, just mono
ones.

What does everyone else do? Is there a source for stereo submini plugs?
Do you just use a mono one and not worry about the power connection?

Thanx,

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Doug Braun      Intel Israel, Ltd.      M/S: IDC1-41
                Tel: 011-972-4-655069   dbraun@inside.intel.com


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Date: Tue, 12 Oct 1993 15:51:27 GMT
From: wyvern!souza@uunet.uu.net
Subject: DJ_580 microphone connector
To: ham-digital@ucsd.edu

dbraun@ilx049.intel.com (Doug Braun) writes:

>Well, I got a DH-580 and I need to connect it to my TNC.  From
>the schematic, I understand how the PTT and audio go on the same
>line.  No problem there.  BUT, the microphone socket is a (submini)
>STEREO socket, where the middle terminal is is apparently supposed to
>supply 5 volts power to an external speaker-mike.  So, if I plug in

>What does everyone else do?  Is there a source for stereo submini plugs?
>Do you just use a mono one and not worry about the power connection?

>Thanx,

>------------------------------------------------------------------
>Doug Braun      Intel Israel, Ltd.      M/S: IDC1-41
>                Tel: 011-972-4-655069   dbraun@inside.intel.com

Try Mouser Electronics  1-800-346-6873.   they have the item in stock.

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Stephen Souza <souza@wyvern.wyvern.com>
         WB1BUH@WD4MIZ.VA.USA

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Date: Tue, 12 Oct 1993 20:48:13 GMT
From: yuma!galen@purdue.edu
Subject: DJ_580 microphone connector
To: ham-digital@ucsd.edu

In article <CEsK1s.L8H@wyvern.wyvern.com> souza@wyvern.wyvern.com (Stephen Souza)
writes:
>dbraun@ilx049.intel.com (Doug Braun) writes:
>
>>Well, I got a DH-580 and I need to connect it to my TNC.  From
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>>the schematic, I understand how the PTT and audio go on the same
>>line.  No problem there.  BUT, the microphone socket is a (submini)
>>STEREO socket, where the middle terminal is is apparently supposed to
>>supply 5 volts power to an external speaker-mike.  So, if I plug in
>>What does everyone else do?  Is there a source for stereo submini plugs?
>>Do you just use a mono one and not worry about the power connection?
>>Thanx,
>>----------------------------------------------------------------
>>Doug Braun     Intel Israel, Ltd.     M/S: IDC1-41
>>               Tel: 011-972-4-655069   dbraun@inside.intel.com
>
>Try Mouser Electronics  1-800-346-6873.   they have the item in stock.
>Stephen Souza <souza@wyvern.wyvern.com>
>          WB1BUH@WD4MIZ.VA.USA


Did you happen to notice the location or phone number?  He's in ISRAEL,
and I don't think that Mouser is going to be the most economical choice.


Galen, KF0YJ


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Date: Wed, 13 Oct 1993 00:53:24 GMT
From: raven.alaska.edu!aurora.alaska.edu!fsrla@decwrl.dec.com
Subject: Macintosh & Packet:  Need HELP!
To: ham-digital@ucsd.edu


Hello, I'm new to this area and was wondering if
anyone could tell me what they think would be a
cheap, but affective Packet set-up for a Macintosh
running System 7.  I don't see much talk about using
a Mac for packet, but it's the only computer in our
house.
Any help would be apriciated.....thanks!
                        ROG!
FSRLA@AURORA.ALASKA.EDU


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Date: 13 Oct 93 06:51:24 GMT
From: news-mail-gateway@ucsd.edu
Subject: Making X1J(or whatever) go at 56 kbaud?
To: ham-digital@ucsd.edu


With a 10 MHz TNC2 running X1J (or something similar) will it crank at
56 kbaud?  If not, how fast will it go?


The application is this:  We are putting up a 56 kbaud repeater.  Attached
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to this repeater will be a 9600 baud port and a 1200 baud port. The 56 kbaud
data will simply be looped through, and when either the 9600 or the 1200 baud
port is addressed in some way, packet will be routed through to it.

Other options would be to use a Data Engine, or a Gracilis Packeten. The only
problem with a DataEngine would be that in our network there would be
relatively few places (if any other) where it would "fit" and thus, it would
be the only one. A P10 would be reasonable, but that would be down the road
(we'd like to get it up and running before "then"...)

The 56 kbaud side (the TNC there) wouldn't really need to do routing, really,
if it had enough "brains" to let the 1200 baud and 9600 baud TNC's do the
work and simply "pass on" packets it knew to be for the two other ports.

If there isn't already a way to do this, there is certainly a need for it.

Thanks

<Clint>

Date: 12 Oct 1993 11:42:40 +0100
From: munnari.oz.au!spool.mu.edu!howland.reston.ans.net!pipex!warwick!
unicorn.nott.ac.uk!unicorn.nott.ac.uk!not-for-mail@network.ucsd.edu
Subject: Public Apology
To: ham-digital@ucsd.edu

In article <4653@eram.esi.COM.AU> dave@esi.COM.AU (Dave Horsfall) writes:
>So, who is this prawn, "Randy KF8TV @ W8HHF" ? Some wanna-be lawyer?
>Are there any more like him over there?
>
Anybody feel like mailstorming him? But then again, maybe it's just not worth
loading the pacsats and HF gateways just for this bozo's sake..

73 Mike

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+-------------------------   O   Mike Knell, University of Nottingham, UK -+
| Nevertheless..   -/ \- Internet: eeyimkn@unicorn.nott.ac.uk |
| the Turtle Moves!   -_/- AX25: g7gpa@gb7bad.#23.gbr.eu |
+--M.T.V. - GET OFF THE AIR!-- | AMPRnet: mpk@hobbes.g7gpa.ampr.org ------+

Date: 13 Oct 1993 00:43:13 +1000

From: munnari.oz.au!metro!news.cs.uow.edu.au!news.cs.uow.edu.au!not-for-mail@network.ucsd.edu
Subject: QPSK MODEM problem ?
To: ham-digital@ucsd.edu

I am currently designing a digital QPSK modem, and have written a simulation in C.
I am incorporating algorithms that calculate timming recovery, phase estimation and frequency
offset estimation. My problem is that when I introduce a ramp frequency offset error, my modem
locks on to the ramp ok, but when the phase starts to converge to a constant value it becomes
unstable. I think my problem lies with my algorithm in calculating the phase when the phase has
moved into the next quadrant of the constaltion. Has anybody written any code which calculates
the frequency offset for a QPSK digital modem.

                        John katsoudas.....

Date: Wed, 13 Oct 1993 03:57:32 GMT
From: nih-csl!postman@uunet.uu.net
Subject: TCP/IP starup cmds for MFJ TNC 2
To: ham-digital@ucsd.edu

Quick question. I am setting up TCP/IP packet radio using a MFJ-1270B
(TNC 2). The ROM's must be up to date, because the modem recognizes
the KISS ON command. What is the series of commands the the MFJ needs
to properly initialize it for TCP/IP packet radio? I have been successful
bringing up a PK232 and PK88, because these manuals have the commands listed.
The MFJ manual I have apparently predates the use of KISS mode.

Thanks in advance.

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Andrew Mitz, Biomedical Eng., Nationl Institutes | Opinions are mine alone
of Health Animal Center, Poolesville, MD | arm@helix.nih.gov

Date: Tue, 12 Oct 93 23:00:38 GMT
From: caen!destroyer!nntp.cs.ubc.ca!alberta!adec23!mark@uunet.uu.net
To: ham-digital@ucsd.edu

References <SBROWN.93Oct8063333@charon.dseg.ti.com>, <29440u$1qi@hp-col.col.hp.com>, <3389@cronos.metaphor.com>bc.ca
Subject : Re: info on cellular mods - illegal?

henniger@Metaphor.COM (Mickey Henniger) writes:

>If the modification were to allow the radio to receive cellular communication,
>this also would not be illegal, since it is not illegal to receive cellular
>communication -- if you do not intend to listen to the conversation (there is
>more than just conversations going on in this frequency range.)

Could someone please post to rec.radio.amateur.digital.misc,rec.radio.scanner,
rec.radio.amateur.policy and rec.radio.info (why not, I'l be pleased to pass
it), the text in the ECPA (or any subsequent laws regarding Cellular Privacy)
that talks about what limits are on the access to Cellular Frequencies,
modifications of radios, and the listening of the transmissions? Please, no
more flaming about whether the US has a right to legislate physics, the facts
are needed now!

Ciao -- 73 de VE6MGS/Mark -sk-
     rec.radio.info submissions   rec-radio-info@ve6mgs.ampr.ab.ca

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End of Ham-Digital Digest V93 #72
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